

MANUFACTURING EXTENSION PARTNERSHIP

Success Stories from the Field

Carlisle Engineered Products

Ohio Manufacturing Extension Partnership

Carlisle Engineered Products Takes Environmental Compliance To A New Level

Client Profile:

Carlisle Engineered Products is a custom molder and extruder of rubber and plastic products, primarily for the OEM automotive market. Established in 1953, the company has become a preferred supplier of high quality products, competitively priced and delivered on time. The company uses innovative manufacturing techniques to continuously improve a broad base of material and process technology. Carlisle employs 350 people at its plant in Crestline, Ohio. CEP's parent company, Carlisle Companies, Inc., is located in Charlotte, North Carolina.

Situation:

As a supplier to General Motors, Ford Motors, and DaimlerChrysler, Carlisle Engineered Products (CEP) knew that compliance with the ISO 14001 standard would become inevitable. The company took a proactive approach and contacted the Lake Erie Manufacturing Extension Partnership (LEMEP), a NIST MEP network affiliate and division of EISC, Inc., to help it obtain its ISO 14001 certification.

Solution:

EISC worked closely with CEP's staff to accomplish the requirements for certification in just one year.

Topping CEP's priority list was a comprehensive and cost-effective storm water pollution prevention system, which improved the quality of effluent from the company's oil/water separator and ensured compliance with federal permits. CEP is striving to reduce electrical usage by 10 percent over the next two years by installing controls that keep injection-molding machines running at top efficiency. Insulating blankets have been installed on molding machines to conserve heat. EISC also targeted CEP's cooling tower system, adjusting chemicals and including more environmentally friendly solutions in the mix. The result is less costly and more mindful of environmental impacts.

The environmental management system (EMS) takes aim at the company's non-hazardous scrap production on a particular product line. To decrease the line's scrap by 50 percent, EISC studied packaging and handling procedures and implemented process controls.

CEP also wanted to strive for paperless record keeping. EISC helped to integrate QS-9000 and ISO 14001 documents, storing everything electronically so as to make the data accessible to everyone in the company. Only one hard copy

MANUFACTURING EXTENSION PARTNERSHIP

Success Stories from the Field

will be kept as a backup.

Carlisle Engineered Products received its ISO 14001 certification in November 2001 and successfully completed its first NSF audit. The company now produces 50 percent less scrap on a key product line and uses less electricity. The company's effluent is cleaner, and its chiller system uses environmentally friendly chemicals. Light bulbs containing mercury are even recycled.

Results:

Achieved ISO 14001 certification.

Reduced scrap on key product line by 50 percent.

Reduced electricity consumption.

Improved environmental conditions at plant to meet compliance standards.

Testimonial:

"We had always done a good job complying with environmental regulations, but the environmental management system we developed with EISC goes well beyond that. It makes us a better corporate citizen and saves us money. It's a proactive system."

Dr. Edward R. Crowe, Technical Director